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United States Department of Agriculture,

OFFICE OF THE SECRETARY—Circular No. 45.

THE ADULTERATION AND MISBRANDING OF THE SEED OF HAIRY VETCH.

During the calendar year 1912, seed of hairy vetch was secured in the open market in accordance with the following paragraph in the act of Congress making appropriations for the Department of Agriculture:

> Where such samples [seeds of grasses, clover, or alfalfa secured in the open market] are found to be adulterated or misbranded, the results of the tests shall be published, together with the names of the persons by whom the seeds were offered for sale.

In carrying on this work under the direction of Mr. E. Brown, Botanist in Charge of the Seed Laboratory, 391 samples of seed sold or offered for sale as hairy vetch were secured, of which 207 were found to be either adulterated or misbranded, and publication is here made of the analyses of these samples, together with the names of the seedsmen by whom they were sold or offered for sale.

Hairy vetch seed was collected for the second time in 1912, when 53 per cent of the samples were found to be adulterated or misbranded, as compared with 62 per cent in the year 1911. Of these samples, 17 contained no seed of hairy vetch, but were composed of cultivated forms of spring vetch, while 190 samples consisted of mixtures of hairy vetch, spring vetch, and other vetches.

As has been pointed out in a previous publication[1] of this Department, there is an easy and definite way in which the seed of most other vetches can be told from that of hairy vetch, as follows:

> * * * the difference in color of the interior of the seed shown by different kinds of vetches affords a ready means for detecting the use of other vetch seed as an adulterant of hairy vetch. Crushed hairy vetch seed is of a lemon-yellow color, somewhat lighter on the flat than on the rounded surface. The crushed seed of most of the other vetches occurring with the seed of the hairy vetch varies in color from a dark fawn to reddish orange.
>
> Crush a small handful of seed and if there are any fawn, salmon, or reddish orange colored pieces the seed is not pure hairy vetch.

[1] Farmers' Bulletin 515, entitled "Vetches," p. 25.

TABLE I.—*Results of tests of samples of seed obtained in the open market as hairy vetch seed and found to be adulterated or misbranded.*

Seed offered for sale or sold as hairy vetch by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples.			
Name of dealer.	Address.		Hairy vetch.	Other vetches.	Other seeds.	Dirt and chaff.
			Per ct.	*Per ct.*	*Per ct.*	*Per ct.*
Ames Implement & Seed Co.	Quincy Hall, Boston, Mass.	Mail (sample)	63.99	34.41	1.54	0.06
Do	do	Purchase (bulk)	66.34	31.60	1.91	.15
Archias Seed Store (Corp.).	106 East Main Street, Sedalia, Mo.	Mail (sample)	7.22	88.67	3.11	1.00
Do	do	Purchase (bulk)	74.28	23.74	1.35	.63
Armstrong & Son, J. B.	Shenandoah, Iowa	Mail (sample)	88.00	11.39	.20	.41
Do	do	Purchase (bulk)	87.14	11.69	.95	.22
Bard Hardware Co.	800 Penn Street, Reading, Pa.	Mail (sample)	31.95	64.99	2.01	1.05
Do	do	Purchase (bulk)	54.24	42.07	2.58	1.11
Barnard Co., W. W.	231 West Madison Street, Chicago, Ill.	Mail (sample)	68.21	29.31	1.79	.69
Do	do	Purchase (bulk)	57.26	38.35	3.44	.95
Barteldes Seed Co.	Lawrence, Kans.	Mail (sample)	86.37	12.52	.49	.62
Do	do	do	87.17	11.71	.86	.26
Do	do	Purchase (bulk)	87.19	12.09	.40	.32
Beckert, W. C.	101 Federal Street, Pittsburgh, Pa.	Mail (sample)	.....	99.54	.....	.46
Do	do	Purchase (bulk)	.....	98.01	.....	1.99
Blackman & Griffin Co.	Ogden, Utah	do	.....	94.47	3.63	1.90
Bofferding, Wm. H.	1221 Washington Avenue North, Minneapolis, Minn.	Mail (sample)	81.90	17.10	.40	.60
Do	do	Purchase (bulk)	63.80	28.56	6.61	1.03
Bolgiano & Son, J.	Pratt, Light, and Ellicott Streets, Baltimore, Md.	Mail (sample)	43.02	54.62	1.79	.57
Do	do	do	79.27	20.73	.....	.....
Do	do	Purchase (bulk)	37.64	59.72	2.05	.59
Brent, C. S.	128 South Broadway, Lexington, Ky.	Mail (sample)	21.32	77.51	1.07	.10
Do	do	Purchase (bulk)	62.43	35.56	1.51	.50
Buffington & Co., J. J.	5 West Lombard Street, Baltimore, Md.	Mail (sample)	51.29	41.97	6.35	.39
Do	do	Purchase (bulk)	57.71	40.50	1.46	.33
Buist Co., Robert	4 South Front Street, Philadelphia, Pa.	do	77.16	19.84	1.62	1.38
Burnett Bros.	72 Cortlandt Street, New York, N. Y.	Mail (sample)	79.45	19.98	.19	.38
Do	do	Purchase (bulk)	85.17	13.96	.82	.05
Busch Seed Co., W. J.	600 Massachusetts Street, Lawrence, Kans.	do	41.47	56.49	1.42	.62
Capelle Hardware Co.	212 Market Street, Wilmington, Del.	Mail (sample)	72.90	20.80	5.27	1.03
Do	do	Purchase (bulk)	73.15	21.88	4.19	.78
Champaign Seed Co.	10 East University Avenue, Champaign, Ill.	Mail (sample)	.....	98.45	.....	1.55
Do	do	Purchase (bulk)	.....	98.78	.75	.47
Chandler's Sons, C.	Broadway and Central Avenue, Cleveland, Ohio.	Mail (sample)	85.12	11.64	1.35	1.89
Do	do	Purchase (bulk)	84.33	14.12	1.35	.20
Colombo Market Seed Co.	615 Front Street, San Francisco, Cal.	do	.....	99.43	.25	.32
Cover, U. J.	Mount Gilead, Ohio	Mail (sample)	78.31	18.22	3.23	.24
Do	do	Purchase (bulk)	79.44	17.88	1.85	.83
Crawford, I. N.	Logansport, Ind.	Mail (sample)	85.64	13.49	.63	.24
Do	do	Purchase (bulk)	85.36	12.69	1.16	.79
Cumberland Seed Co.	132 Second Avenue North, Nashville, Tenn.	Mail (sample)	60.39	37.14	1.53	.94
Do	do	Purchase (bulk)	79.04	19.38	1.04	.54
Davis Co., Zack	Delaware, Ohio	Mail (sample)	40.00	56.69	2.06	1.25
Do	do	Purchase (bulk)	38.48	58.32	2.04	1.16
Drumm Seed & Floral Co.	Fort Worth, Tex.	Mail (sample)	25.94	73.40	.34	.32
Do	do	Purchase (bulk)	25.29	73.13	.73	.85
Do	do	do	23.05	76.45	.38	.12
Emerson Co., Thomas W.	74 South Market Street, Boston, Mass.	Mail (sample)	78.65	19.81	.46	1.08
Do	do	Purchase (bulk)	80.49	18.58	.66	.27
Faribault Seed Co.	208 West Fourth Street, Faribault, Minn.	do	66.05	27.61	5.67	.67
Farmer Seed & Nursery Co.	Faribault, Minn.	Mail (sample)	80.48	19.21	.31	.....
Do	do	Purchase (bulk)	81.37	16.44	1.08	1.11
Field Seed Co., Henry	Shenandoah, Iowa	Mail (sample)	89.43	9.35	.89	.33
Do	do	do	86.94	10.30	1.81	.95
Do	do	Purchase (bulk)	87.01	12.13	.52	.34

TABLE I.—*Results of tests of samples of seed obtained in the open market as hairy vetch seed and found to be adulterated or misbranded*—Continued.

Seed offered for sale or sold as hairy vetch by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples.			
Name of dealer.	Address.		Hairy vetch.	Other vetches.	Other seeds.	Dirt and chaff.
			Per ct.	*Per ct.*	*Per ct.*	*Per ct.*
Forbes Seed Store	Plymouth, Ind	Mail (sample)	86.77	11.29	1.94	.....
Do	do	Purchase (bulk)	86.02	11.65	1.65	.68
Fritz, L. D	Delaware, N. J	Mail (sample)	64.82	30.70	3.30	1.18
Do	do	Purchase (bulk)	57.81	35.79	5.77	.63
German Nurseries & Seed House.	Beatrice, Nebr	do	87.94	10.67	1.13	.26
Gould & Co., R. L	496 Jackson Street, St. Paul, Minn.	Mail (sample)	59.30	31.92	8.61	.17
Do	do	Purchase (bulk)	65.54	28.56	5.51	.39
Gordinier & Sons Co., H. W.	Troy, N. Y	Mail (sample)	74.48	23.58	1.49	.45
Do	do	do	73.45	23.64	2.91	.....
Do	do	Purchase (bulk)	74.14	21.37	3.91	.58
Gregory & Son, J. J. H	Marblehead, Mass	Mail (sample)	66.69	32.49	.....	.82
Do	do	Purchase (bulk)	76.97	22.73	.09	.21
Griffin Co., H. L	2364 Wall Avenue, Ogden, Utah.	Mail (sample)	.....	94.06	4.27	1.67
Do	do	Purchase (bulk)	.....	94.34	3.74	1.92
Griffith & Turner	205 North Paca Street, Baltimore, Md.	do	55.21	36.28	8.18	.33
Griswold & Co., Thomas.	South Wethersfield, Conn	Mail (sample)	70.68	25.18	3.71	.43
Do	do	Purchase (bulk)	72.08	24.42	3.26	.24
Guelf's Seed Store	P. O. Box 138, Brockport, N. Y.	Mail (sample)	78.31	19.16	2.36	.17
Do	do	Purchase (bulk)	77.01	19.16	3.08	.75
Hall Seed Co	Preston and Jefferson Streets, Louisville, Ky.	Mail (sample)	78.95	19.18	.93	.94
Do	do	Purchase (bulk)	77.42	16.96	4.68	.94
Harnden Seed Co	505 Walnut Street, Kansas City, Mo.	do	39.33	57.98	1.94	.75
Hickory Seed Co	Hickory, N. C	Mail (sample)	82.62	15.96	1.30	.12
Do	do	Purchase (bulk)	77.18	20.70	1.52	.60
Hoermann, Frank	317 Wabash Avenue, Terre Haute, Ind.	Mail (sample)	88.08	9.44	1.35	1.13
Do	do	Purchase (bulk)	66.94	31.43	1.37	.26
Holway Co., Oscar	Auburn, Me	Mail (sample)	60.12	38.32	1.56	.....
Do	do	Purchase (bulk)	63.77	33.23	1.96	1.04
Howard, Frank	59 North Street, Pittsfield, Mass.	do	77.12	21.63	1.02	.23
Imperial Seed & Plant Co.	Grange, Baltimore, Md	Mail (sample)	29.63	66.56	2.80	1.01
Do	do	Purchase (bulk)	51.83	44.28	2.81	1.08
Inland Seed Co., The	913 First Avenue, Spokane, Wash.	Mail (sample)	80.26	17.13	2.34	.27
Do	do	Purchase (bulk)	82.21	16.33	1.18	.28
Isbell & Co., S. M	Jackson, Mich	Mail (sample)	71.27	24.30	4.43	.....
Do	do	Purchase (bulk)	76.04	22.64	.97	.35
Jacot & Mullen	1 Water Street, New York, N. Y.	Mail (sample)	76.39	22.43	.59	.59
Do	do	Purchase (bulk)	75.21	23.87	.56	.36
Johnson Seed Co	217 Market Street, Philadelphia, Pa.	do	53.79	43.78	1.98	.45
Jones Seed Co., L. F	Grand Rapids, Mich	do	82.14	14.40	2.67	.79
Jones Seed Co., O. S	Sioux Falls, S. Dak	Mail (sample)	72.19	22.88	2.82	2.11
Do	do	Purchase (bulk)	76.41	21.57	1.56	.46
Jordan Seed & Fertilizer Co.	Dublin, Va	Mail (sample)	.....	99.88	.....	.12
Do	do	Purchase (bulk)	84.79	13.18	1.28	.75
Kaufmann Co., Jacob	538 First Avenue South, Seattle, Wash.	Mail (sample)	88.35	11.18	.44	.03
Do	do	Purchase (bulk)	83.69	14.91	1.19	.21
Kramer & Son, I. N	317 Second Avenue, Cedar Rapids, Iowa.	Mail (sample)	86.25	11.86	.83	1.06
Do	do	Purchase (bulk)	84.19	11.88	2.97	.96
La Fleur & Co., W. A	Madison, Nebr	Mail (sample)	76.47	20.87	1.67	.99
Do	do	Purchase (bulk)	.....	99.49	.....	.51
Lilly Co., Charles H	Seattle, Wash	Mail (sample)	82.89	15.31	1.52	.28
Do	do	Purchase (bulk)	85.58	12.84	1.29	.29
Do	Portland, Oreg	Mail (sample)	88.92	10.26	.26	.56
Do	do	Purchase (bulk)	84.37	13.82	1.58	.23
Louisville Seed Co	Louisville, Ky	Mail (sample)	43.19	53.79	1.72	1.30
Do	do	Purchase (bulk)	70.14	25.98	3.45	.43
Lynchburg Seed Co	100 Ninth Street Lynchburg, Va.	do	79.16	18.82	1.30	.72

..—*Results of tests of samples of seed obtained in the open market as hairy vetch seed and found to be adulterated or misbranded*—Continued.

ed offered for sale or sold as hairy vetch by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples.			
Name of dealer.	Address.		Hairy vetch.	Other vetches.	Other seeds.	Dirt and chaff.
			Per ct.	*Per ct.*	*Per ct.*	*Per ct.*
McCullough, J. Charles.	Second and Walnut Streets, Cincinnati, Ohio.	Mail (sample)	81.67	15.97	1.71	.65
Do	do	Purchase (bulk)	79.29	17.83	2.40	.48
MacNiff Horticultural Co.	62 Vesey Street, New York, N. Y.	do	84.27	14.94	.57	.22
Market Gardeners' Seed Co.	120 East Court Street, Cincinnati, Ohio.	Mail (sample)	83.26	14.44	1.78	.52
Do	do	Purchase (bulk)	80.40	16.91	2.42	.27
Marlow Seed Co	Wichita, Kans	do	85.42	12.96	.67	.95
Martin & Sons, C. J	Austin, Tex	Mail (sample)	26.49	72.24	1.27	.....
Do	do	Purchase (bulk)	25.94	72.84	1.02	.20
Mayo, D. R	615 Gay Street, Knoxville, Tenn.	do	84.67	14.83	.50	.....
Meyer-Stisser Co	32 Light Street, Baltimore, Md	Mail (sample)	3.02	81.58	11.17	4.23
Do	do	Purchase (bulk)	86.39	10.72	2.18	.71
Miller & Son (Inc), W. A.	1016 Main Street, Lynchburg, Va.	Mail (sample)	14.99	80.02	4.10	.89
Do	do	Purchase (bulk)	15.02	78.17	5.88	.93
Moore Seed Co., The	125 Market Street, Philadelphia, Pa.	Mail (sample)	72.12	26.74	.41	.73
Do	do	Purchase (bulk)	74.75	23.59	.70	.96
Muzzy Bros	136 Main Street, Paterson, N. J.	do	83.28	15.69	.85	.18
Navlet Co., Charles C	22 East San Fernando Street, San Jose, Cal.	do	.....	98.64	.66	.70
Nebraska Seed Co	1208 Jones Street, Omaha, Nebr.	Mail (sample)	70.64	26.87	2.10	.39
Do	do	Purchase (bulk)	78.91	18.61	1.37	1.11
Nicholson, Robert	Dallas, Tex	Mail (sample)	41.24	56.19	1.93	.64
Do	do	Purchase (bulk)	79.23	17.91	1.22	1.64
Noll & Co., J. F	Newark, N. J	Mail (sample)	74.03	24.60	1.14	.23
Do	do	Purchase (bulk)	73.54	25.00	1.23	.23
Northrup, King & Co	26 Hennepin Avenue, Minneapolis, Minn.	Mail (sample)	69.04	26.70	4.00	.26
Do	do	Purchase (bulk)	61.70	30.89	7.00	.41
Nungesser - Dickinson Seed Co.	P. O Box 202, New York, N. Y.	Mail (sample)	72.19	26.34	.67	.80
Do	do	Purchase (bulk)	68.13	30.23	1.11	.53
Ohio Valley Seed Co	513 Sycamore Street, Evansville, Ind.	do	67.80	29.97	1.39	.84
Olds & Whipple	164 State Street, Hartford, Conn.	Mail (sample)	72.39	26.21	1.18	.22
Do	do	Purchase (bulk)	78.11	21.23	.20	.46
Ozark Seed Co	209 West Commercial Street, Springfield, Mo.	do	65.05	33.55	1.00	.40
Prunty, Charles E	7 South Main Street, St. Louis, Mo.	Mail (sample)	18.33	80.70	.41	.56
Do	do	Purchase (bulk)	57.34	40.52	1.23	.91
Rapier Grain & Seed Co.	Owensboro, Ky	Mail (sample)	38.27	57.49	2.85	1.39
Do	do	Purchase (bulk)	65.65	32.66	1.05	.64
Ratekin's Seed House	Shenandoah, Iowa	do	15.13	83.80	.73	.34
Reding & Clark	1325 Main Street, Joplin, Mo	Mail (sample)	71.48	25.74	2.51	.27
Do	do	Purchase (bulk)	68.78	27.16	3.09	.97
Reichardt & Schulte Co.	206 Milam Street, Houston, Tex.	Mail (sample)	70.31	26.57	2.21	.91
Do	do	Purchase (bulk)	86.27	12.40	1.17	.16
Ribsam, Martin C	Broad and Front Streets, Trenton, N. J.	Mail (sample)	71.80	23.78	3.65	.77
Do	do	Purchase (bulk)	69.51	26.75	2.96	.78
Ripps Seed & Paint Store, J. F.	528 Market Street, San Antonio, Tex.	Mail (sample)	.14	99.68	.....	.18
Do	do	Purchase (bulk)	.10	99.25	.54	.11
Ross Bros. Seed House.	Wichita, Kans	Mail (sample)	88.11	11.39	.17	.33
Do	do	Purchase (bulk)	86.73	12.61	.47	.19
Roswell Seed Co	115 South Main Street, Roswell, N. Mex.	Mail (sample)	83.59	14.56	.49	1.36
Do	do	Purchase (bulk)	87.29	11.61	.68	.42
Rush Park Seed Co	Waco, Tex	Mail (sample)	40.35	57.94	1.09	.62
Do	do	Purchase (bulk)	1.26	98.32	.14	.28
Salzer Seed Co., J. A	La Crosse, Wis	Mail (sample)	56.85	41.60	.63	.92
Do	do	Purchase (bulk)	72.06	26.17	1.12	.65
Schell, Walter S	1307 Market Street, Harrisburg, Pa.	do	51.52	36.64	11.13	.71

TABLE I.—*Results of tests of samples of seed obtained in the open market as hairy vetch seed and found to be adulterated or misbranded*—Continued.

Seed offered for sale or sold as hairy vetch by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples.			
Name of dealer.	Address.		Hairy vetch.	Other vetches.	Other seeds.	Dirt and chaff.
			Per ct.	*Per ct.*	*Per ct.*	*Per ct.*
Schisler - Corneli Seed Co.	813 North Fourth Street, St. Louis, Mo.	Mail (sample)	78.05	18.56	2.40	.99
Do	do	Purchase (bulk)	80.33	17.81	1.03	.83
Schrage's Seed Store	116 East Court Street, Cincinnati, Ohio.	Mail (sample)	81.49	16.65	1.42	.44
Do	do	Purchase (bulk)	80.24	17.29	1.92	.55
Schwill & Co., Otto	Memphis, Tenn	Mail (sample)	93.95	5.34	.50	.21
Do	do	Purchase (bulk)	87.82	10.35	1.19	.64
Scott & Son, O. M	Marysville, Ohio	Mail (sample)	90.41	7.89	1.12	.58
Do	do	Purchase (bulk)	84.34	13.53	1.58	.55
Siegel, George L	Erie, Pa	Mail (sample)	67.27	27.54	4.20	.99
Do	do	Purchase (bulk)	71.42	25.02	3.21	.35
Simpson & Co., W. A	110 South Street, Baltimore, Md.	Mail (sample)	45.12	50.96	3.31	.61
Do	do	Purchase (bulk)	19.22	75.63	4.04	1.11
Snow's Seed Store	Camden, N. Y	Mail (sample)	78.37	17.25	.48	3.90
Do	do	Purchase (bulk)	79.94	18.71	.69	.66
Sprecher & Ganss	25 East King Street, Lancaster, Pa.	Mail (sample)	26.88	68.69	3.52	.91
Do	do	Purchase (bulk)	15.56	77.85	5.00	1.59
State Nursery Co	Helena, Mont	Mail (sample)	.....	98.90	.23	.87
Do	do	Purchase (bulk)	61.73	31.36	6.27	.64
Storrs & Harrison Co	Painesville, Ohio	Mail (sample)	89.54	9.39	.93	.14
Do	do	Purchase (bulk)	82.77	15.52	1.20	.51
Tacoma Implement & Seed Co.	1350 Commerce Street, Tacoma, Wash.	Mail (sample)	35.65	61.06	1.78	1.51
Do	do	Purchase (bulk)	36.17	59.73	2.49	1.61
Taylor Bros	Market and Front Streets, Camden, N. J.	Mail (sample)	74.70	24.15	.86	.29
Do	do	Purchase (bulk)	81.87	16.42	1.31	.40
Texas Seed & Floral Co.	Dallas, Tex	Mail (sample)	88.75	10.08	1.05	.12
Do	do	Purchase (bulk)	38.65	53.99	5.56	1.80
Theilmann Seed Co	1517 State Street, Erie, Pa	do	82.37	14.04	2.76	.83
Tilton & Son, A	653 Woodland Avenue SE., Cleveland, Ohio.	Mail (sample)	59.57	39.15	.73	.55
Do	do	Purchase (bulk)	58.52	36.60	4.71	.17
Tucker-Mosby Seed Co.	44 South Front Street, Memphis, Tenn.	do	80.32	17.24	1.83	.61
Union Seed Co	Bristol, Va.-Tenn	do	67.12	30.25	2.47	.16
Warren Co., D. W	105 Commercial Place, Norfolk, Va.	Mail (sample)	82.85	14.40	.65	2.10
Do	do	Purchase (bulk)	81.87	16.23	1.71	.19
Wertheimer & Sons, N.	Ligonier, Ind	do	.....	98.70	.....	1.30
Whitney - Eckstein Seed Co.	599 Perry Street, Buffalo, N. Y.	Mail (sample)	6.74	85.09	6.74	1.43
Do	do	Purchase (bulk)	41.49	54.23	3.60	.68
Wood, Stubbs & Co	219 East Jefferson Street, Louisville, Ky.	Mail (sample)	68.91	28.52	1.99	.58
Do	do	Purchase (bulk)	83.07	14.56	1.32	1.05
Word's Seed Store	219 Pine Street, Texarkana, Ark.-Tex.	Mail (sample)	48.49	49.35	2.16	.....
Do	do	Purchase (bulk)	45.70	50.00	3.16	1.14
Yopp Seed Co., M. J	124 South Second Street, Paducah, Ky.	Mail (sample)	82.82	15.80	.38	1.00
Do	do	Purchase (bulk)	87.73	11.08	.56	.63
Yuess Gardens Co	Newburgh, N. Y	do	.....	99.85	.02	.13

As has been formerly stated in its publications, the Department of Agriculture will examine and report promptly as to the presence of adulterants and dodder in any samples of seed submitted for that purpose. According to the location of the sender, these samples may be submitted to the Seed Laboratory at Washington, D. C., or to any of the following laboratories maintained through the cooperation of this Department: Branch Seed-Testing Laboratory, Agricultural

riment Station, Columbia, Mo.; Branch Seed-Testing Labora-, Agricultural Experiment Station, Baton Rouge, La.; Branch ed-Testing Laboratory, Oregon Agricultural College, Corvallis, Oreg.; Branch Seed-Testing Laboratory, Purdue University, La Fayette, Ind.; Branch Seed-Testing Laboratory, California Agricultural Experiment Station, Berkeley, Cal.

WM. A. TAYLOR,
Chief, Bureau of Plant Industry.

Approved:
D. F. HOUSTON,
Secretary of Agriculture.

WASHINGTON, D. C., *June 17, 1913.*

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